KOMANOV, D.A.; VERINA, G.P., tekhnicheskiy redaktor.

[Technological specifications for handling and securing laods and utilizing the carrying capacity of freight cars] Tekhni-cheskie usloviia pogruski i krepleniia grusov i ispol'sovaniia gruzopod"emnosti vagonov. Koskva, Gos.transp.shel-dor.izd-vo, 1955. 438 p. (MLRA 8:11)

(Railroads--Freight cars)

YUGOSLAVIA

VANDEKAR, M. and KOMANOV. I: Institute for Medical Research and Occupational Medicine (Institut za medicinska istrazivanja i medicinu rada,) Zagreb.

"Percutaneous Toxicity of Organic Phosphates. Part 1. Parathion Toxicity with Regard to Skin Surface Preparation and Mode of Application of Poison."

Zagreb, Arhiv za Higijenu rada i Toksikologiju, Vol 14, No 1, 1963; pp 7-12.

Abstract [English summary modified]: Study in rats painted with parathion solution (on 2 to 2.5 square cm. of shaved skin of back) showed that neither mutual nor self-grooming affected toxicity (i.e. no oral component); if the area was covered after application with either polyethylene film or plasticized adhesive bandage, absorption was decreased by ratio of 2 resp. 3.5. Five tables; 2 Yugoslav and 13 Western references.

1/1

VANDEKAR, M.; KOMANOV, I.

Studies on the percutaneous toxicity of organic phosphate compounds. I. Toxicity of parathion and its relation to the skin surface and the mode of application. Arch. hig. rada 14 no.1: 7-12 '63.

1. Institut za medicinska istrazivanja i medicinu rada, Zagreb.

VANDEKAR,M.; KOMANOV,I.; KOBREHEL.D.

Studies on the percutaneous toxicity of organic phosphate compounds. 2. Effect of the size of the contamined area of the skin and the concentration of the poison on the penetration rate of paraoxon through the skin. Arch. hig. rada 14 no.1: 13-18 *63.

1. Institut za medicinska istrazivanja i medicinu rada, Zagreb.

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YUGOSLAVIA

VANDEKAR, M., KOMANOV, I. and KOBREHEL, Dj.; Institute for Medical Research and Occupational Medicine (Institut za medicinska istrazivanja i medicinu

APPROVEDSTOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020007-8"

"Percutaneous Toxicity of Organic Phosphates. Part 2. Effect of Extent of Contaminated Area and Concentration of Poison on Speed of Penetration through the Skin of Paraoxone."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 14, No 1, 1963; pp 13-18.

Abstract [English summary modified]: Study in rats: appearance of symptoms was slightly earlier and cholinesterase fall sharper when 20 mg./ml. of paraoxone was applied to a 4 X 4 cm. area of shaved skin than when 80 mg./ml. was applied to 2 X 2 cm. Both area and concentration must be considered in such studies and this explains controversial data about percutaneous toxicity of such substances. Table, drawing, 2 graphs; 2 Yugoslav and 6 Western ref's.

PREORRAZHENSKIY, N.I., kand. fiziko-matematicheskikh nauk; KOMANOV, L.I.

Increasing the service reliability of a transistorized contactless position pickup. Izv. TSKHA no.2:166-172 *63.

(MIRA 16:10)

L 11037-66 EVT(1)/EWA(h)

ACC NR. AR6000411

SOURCE CODE: UR/0271/65/000/009/A031/A031

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitelinaya tekhnika, Abs. 9A233

AUTHOR: Preobrazhenskiy, N. I.; Komanov, L. I.

OB

TITLE: Effect of the component parameter spread and the mounting type upon the operational parameters of a transistorized inductive position sensor

CITED SOURCE: Dokl. Mosk. in-ta inzh. s.-kh. proiz-va, v. 1, no. 3, 1964, 39-45

TOPIC TAGS: position sensor, transistorized position sensor

TRANSLATION: A position sensor is considered whose operation depends on the collapse of oscillations of a transistorized oscillator. Tables are presented which show the effects of temperature, supply voltage, and transistor gain on the operating position. The operating-point shift at a supply voltage variation of -15 +10% remains within 0.3 mm with iron and copper vanes over 1 mm thick and 50 mm wide. The sensor operation is stable at temperatures within -20 +75C. The sensor parameters are reported.

SUB CODE: 13, 09

HW

UDC: 621.398.694:531.7

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-0

CIA-RDP86-00513R000824020007-8"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824020007-8

L 2650-66 ENT(1)/EVA(h) ACC HRI AP5026112

SOURCE CODE: UR/0119/65/000/010/0029/0029

AUTHOR: Komanov, L. I. (Engineer); Preobrazhenskiv N. I. (Candidate of physico-mathematical sciences)

ORG: none

TITLE: Transistorized contactless position sensor 25

SOURCE: Priborostroyeniye, no. 10, 1965, 29

TOPIC TAGS: position sensor

ABSTRACT: An induction sensor consisting of two transistor oscillators and a power transistor is briefly described. The operating 0.3-mm metal vane stops oscillations when it moves into a slot between two coils of one of the oscillators, and causes the final relay to operate. Reliable operation at an ambient temperature of -20 +75C with a supply voltage variation of -15 +10% is claimed. The sensor can be supplied by a 12/24 v unsmoothed d-c voltage taken from a rectifier. Orig. art. has: 2 figures.

SUB CODE: EC, IE/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 000/ ATD PRESS 4/2

Card 1/1

UDC: 62-531.4:621.3.083.8

AUTHORS: Spivakovskiy, L.I., Engineer, Komanov, P.Ye, Osadchaya, V.S., Engineer

TITLE: Comparing the Efficiency of Various Steel Tube Production Methods

PERIODICAL: Stal', 1961, No. 2, pp. 174-177

TEXT: The Soviet tube production is increasing at a higher rate than production in other sectors of the metal industry. Before World War I, the output of rolled products was 45 times higher than that of steel tubes. In the first ten years of the Soviet regime the increase in rolled goods production was 13%, that of steel tubes 135%. In 1959, steel tube production was 78 times, and that of iron tubes 8 times the 1913 level. Under the first Five-Year Plan the capital investment in tube production amounted to 193.3 million rubles (inc. 87.5 million for reconstruction), in the seven-year period of 1951-1958: 311.4 million and under Seven-Year Plan 1959-1965 investments totalling 637 million rubles are planned. In view of the increasing demand for tubes and the considerable amounts invested in this line of industry, it is Card 1/8

Comparing the Efficiency of Various Steel Tube Production Methods

important to find the most economic technology. In 1958-59, the Ukrainskiy Nauchno-isslodova-tel'skiy trubnyy institut (Ukranian Scientific Tube Research Institute) studied this problem and developed a method to determine the economic aspects of tube production which is based on technical-economic indices, specific capital investment, production costs and an "index of efficiency" (the relation of profit or loss to specific capital investment). In order to determine the most economic production process, comparisons were made between the indices of rolling general purpose pipes and drive pipes. The latter (219x9.5 mm) were produced both on pilger stands and on automatic stands. Table 1 contains the technical and economic indices for 219x9.5 mm drive pipes which show that when the specific capital investment and the cost of pipes change in the same sense, productivity changes in the opposite direction. According to the comparisons, production of drive pipes on pilger mills is more economical than on automatic mills. The analysis of technicaleconomic indices of the production of general-purpose pipes of various sizes (102-108 and 114-127 mm) shows that the total cost of 1 ton of piping on the

Card 2/8

Comparing the Efficiency of Various Steel Tube Production Methods

tube drawing mill is 24.28% higher, while the specific capital investment is 40-50% lower than for pipes produced on the automatic mill. When calculating the economic efficiency by the selling prices and taking 115 rubles for 1 ton piping produced on the above mills, (for the same amount of tubes) the automatic mill ensures a profit of 6.5 rubles/ton, while production on rack type draw benches results in a 19-rubles loss for the same quantity of piping. This tube drawing mill should therefore be redesigned or taken out of production (Table 2). Referring to various factors of the efficiency coefficient it is possible to select the most economical technology, and by comparing the coefficients of various tubes, the optimum distribution of various tube types can be established. The parameters of large-diameter tube production for municipal pipelines were investigated in three variants: for the pilger mill production, for the pilger mill production with subsequent treatment on the expander and for electric welding (Table 3). It was found that the production costs of 529-1020 mm diameter drill tubes on 12-24" pilger mills with subsequent treatment on the expander mill (48 rubles 18 kop.) are lower than the cost of welding (with flux) of the same type of tubes, above 720 mm dia-Card 3/8

Comparing the Efficiency of Various Steel Tube Production Methods

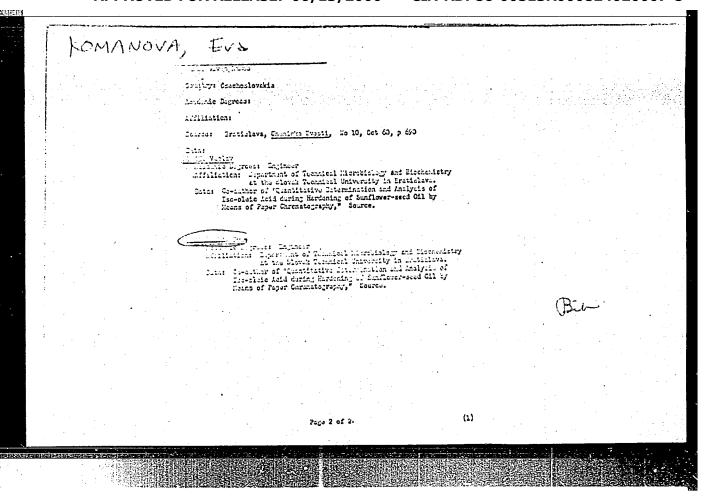
meter (56 rubles 11 kop.). However, when taking into account the prospects of producing sheets on continuous mills of increasing the welding speed, etc. the calculations show that both methods will involve about the same expenses. There are 5 tables.

ASSOCIATION: UkrNITI

Oard 4/8

L 06535-67 EWT(m) IJP(c) ACC NR: AT6017507 SOURCE CODE: UR/2759/65/000/007/0048/0053 AUTHOR: Komanov, V. V.; Seleznev, V. D. 28 ORG: none TITLE: Design of a vacuum system for a linear accelerator SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 7, 1965, 48-53 TOPIC TAGS: particle accelerator component, linear accelerator, high vacuum technique ABSTRACT: The basic equations used in the design of the vacuum system for a linear waveguide accelerator are reviewed. Special attention is paid to the case when the waveguide itself is not vacuum tight but is placed in an external vacuum vessel. Expressions are given for the necessary pumping rate under various conditions. Orig. art. has: 2 figures, 15 formulas. SUB CODE: 20,18/ SUBM DATE: none/ ORIG REF: 002 Card 1/1 e

1 h5 553-66 EVP(J) IN	cz/0043/66/000/001/0085/0087
ACC NR: AP6033609 SOURCE CODE:	02/0043/00/000/001/003/000/
AUTHOR: Komanova, Eva (Engineer; Bratislava); Antos, Ka Engineer; Candidate of sciences; Bratislava)	milAntosh, K. (Docent;
ORG: Department of Organic Chemistry, <u>Slovak Technical</u> (Katedra organickej chemie Slovenskej vysokoj skoly tech	University, Bratislaya & nickej)
TITIE: Isothiocyanates (XV). The separation of isothio	cyanates by thin layer
Arts Arter a Substitute 1	
SOURCE: Chemicke zvesti, no. 1, 1966, 85-87	
TOPIC TAGS: thiocyanate, isomer, chemical separation, c	hromatography
ABSTRACT: Separation of isothiccyanates of the dimethyl investigated by thin layer chromatography on silicic acipossible when one of the benzene rings has a substituting the NCS group. Orig. art. has: 2 figures and 1 table. abst.] [JPRS: 34,805]	d. The separation is g methyl group as well as
SUB CODE: 07 / SUBM DATE: 05Mar65 / ORIG REF: 005	/ SOV REF: OO1
Card 1/1	
	()43()



KOMANOVSKIY, A.

If you are an engineer... Metallurg 8 no.11:30-31 N '63.(MIRA 16:12)

1. Vneshtatnyy korrespondent zhurnala "Metallurg".

KOMANOVSKIY, A.; SPRIKUT, D.

Main direction of modernization and reorganization. Metallurg 7 no.9:25-27 S '62. (MIRA 15:9)

1. Metallurgicheskiy zavod im. S. Ordzhonikidze. (Zaporozhye--Iron and steel plants)

DOLMATOV, F.; KOMANOVSKIY, A. inzh.

Slabbing mill operations in the Zaporozhstal' plant. Metallurg 8 no.9:28-30 S '63. (MIRA 16:10)

1. Nachal*nik tsekha slyabinga zavoda "Zaporozhstal*" (for Dolmatov).

(Zeporozh'ye--Rolling mills)

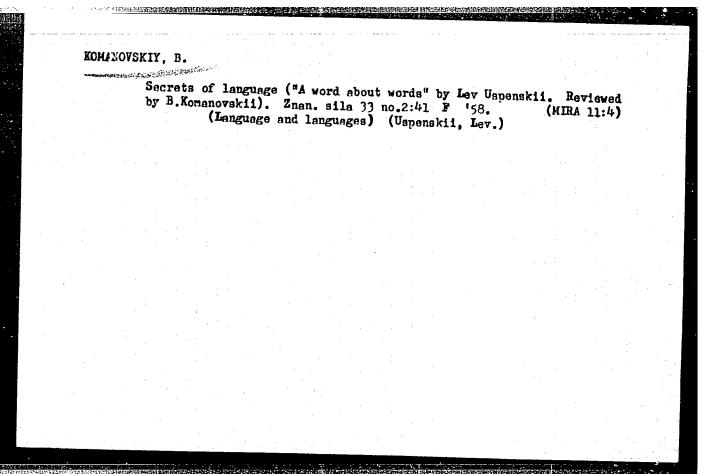
YUDIN, M.I.; KOMANOVSKIY, A.Z.; TROSHCHENKOV, N.A.

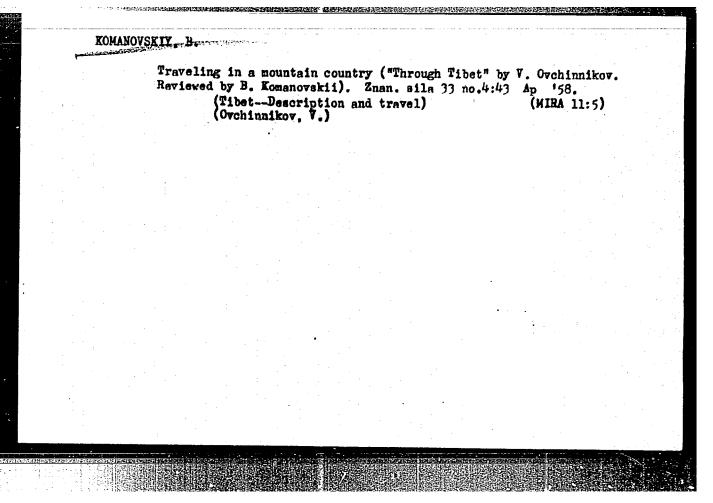
Redesign of the 1618 continuous cold rolling mill. Metallurg 8 no.11:28-29 N '63. (MIRA 16:12)

Mastering the production of formed sections in closed passes.

Metallurg 10 no.3:20-27 Mr 165.

1. Zavod "Saporoshsial's.





SHEREGAYEV, Nikolay Pavlovich; KOMANOVSKIY, M.L., inzh., retsenzent; KULACHKOV, V.I., inzh., retsenzent; GERB, M.A., inzh., red.; MITARCHUK, G.A., red. izd-va; SPERANSKAYA, O.V., tekhn. red.

[Concise handbook on descriptive geometry and mechanical drawing]
Kratkii sprayochnik po nachertatel'noi geometrii i mashinostroitel'nomu chercheniiu. Moskva, Mashgiz, 1962. 214 p.

(NIRA 15:3)

(Mechanical drawing) (Geometry, Descriptive)

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya
Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich;
GABAY, Lev Izrailevich, DIDEHKO, Viktor Yefimovich; ZASHKVARA, Vasiliy Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris
Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr
Matvevevich; KOMANOVSKIV, Maksim Semenovich; LEYTES, Viktor Abramovich,
MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich, ORUKHOVSKIY Yakov Mironovich; RODSHTMYN, Pavel Moiseyevich; SAPCZHNIKOV,
Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasiliy
Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir'
Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich;
SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the disemmination of advanced practices] Poluchenia domennogo koksa postciannogo kachestva; sbornik statei po obmenu peredovym opytom. Khar'kov. Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8) (Coke industry)

KOMANOVSKIY, Z.I., inzh.

Technical solutions of principal buildings of the Krivoy Rog Central Mining and Ore Dressing Combine. Prom. stroi. 37 no.8:58-62 Ag 159. (MIRA 12:11)

1. Pridneprovskiy Promstroyproyekt.
(Krivoy Rog--Ore dressing) (Factories--Design and construction)

KOMANOVSKIY, Z.Sh., inzhener; SATANOVSKAYA, A.S., inzhener.

Coke bunkers built of precast reinforced concrete elements. Bet. 1 zhel.-bet. no.12:425-429 D '56. (MLRA 10:2)

(Precast concrete construction) (Coke-Storage)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020007-8

E, KOMANUSKI, T

POLAND/Nuclear Physics - Installations and Instruments. Methods of Measurement and Research

Abs Jour ! Ref Zhur - Fizika, No 6, 1958, No 12459

Author : Komanski Tadeusz

: Institute for Nuclear Research, Polish Academy of Sciences, Inst

Warsaw, Poland

: Slow Neutron Detection in the Presence of Gamma Radiation

Orig Pub ; Acta phys. polon., 1956, 15, No 5, 351

Abstract: The measurement is based on the fact that the gamma ways do not cause noticeable scintillations in ZnS (Ag), and knock out electrons directly from the photocathode and the dynodes. As a consequence the pulses at the output of the photomultiplier are very brief. At the same time the X particles of the reaction $B^{10}(n, \infty)$ Li7 produce in the ZnS (Ag) light pulses of long duration. This makes it possible, using an integrating network and a simple amplitude discriminator, to eliminate practically all the background of the gamma rays.

Card : 1/1 BUZAYEVA, A.I.; POLYAK, E.A.; PERKINA, A.S.; KOMANTSEVA, M.I.

Use of complexometric methods for determining the basic substance in chemical reagents. Prom. khim. reak. i osobo chist. veshch. no.1:22-24 '63. (MIRA 17:2)

BUZAYEVA, A.I.; VELICHKO, E.N.; KOMANTSEVA, M.I.

Spectral determining of impurities in reagents and preparations.

Prom. khim. reak. i osobo chist. veshch. no.1:19-22 '63a (MIRA 17:2)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020007-8"

इंड्र कर एक

HORN, Dezso; TEMESSZENTANDRASI, Guido; NOHRER, Arpad; VARGA, Gyorgy; RERES, Sandor, dr., buntetobiro; TOTH, Anna, SIMONOVITS, Istvan; KOMAR, Andras; PAL, Forenc, dr.; SOMOGYI, Miklos; SOMOSKOI, Gabor

The 10th Plenary 5 ssion of the National Council of Trade Unions.

1. Szakszervezetek Orszagos Tanacsanak titkara, es "hunka" szerkesztobizottsagi tab (for Horn, Varga). 2. Fomernok, Ozdi Kohaszati Muvek (for Temesszentandrasi). 3. Elelmezesipari Dolgozok Szakszervezete elnoke. (for Nohrer). 4. Textilszakszervezet fotikara (for Toth). 5. Egeszsegugyi Miniszter elso helyettese, Budapest. (for Simonovits). 6. Banyaipari Dolgozok Szakszervezetenek titkara (for Komar). 7. Orvos-Egeszsegugyi Dolgozok Szakszervezetenek fotitkara (for Pal). 8. Szakszervezetek Orszagos Tanacsanak elnoke es Magyar Szocialista Munkaspart Politikai Bizottsaganak Tagja (for Somogyi). 9. Epito-, Fa- es "pitoanyagipari Dolgozok Szakszervezete

MUNDI, Iozhef; KOMAR, Andresh; VIG, Arnad; VARGA, Iozhef; KAHDO, Yanosh
We are proud of your success. Mast. ugl. 8 no.8:30 Ag '59.
(MIRA 12:12)

1. Chleny profeoyusnoy delegateii gornyakov Vengrii.
(Hungary--Coal miners)

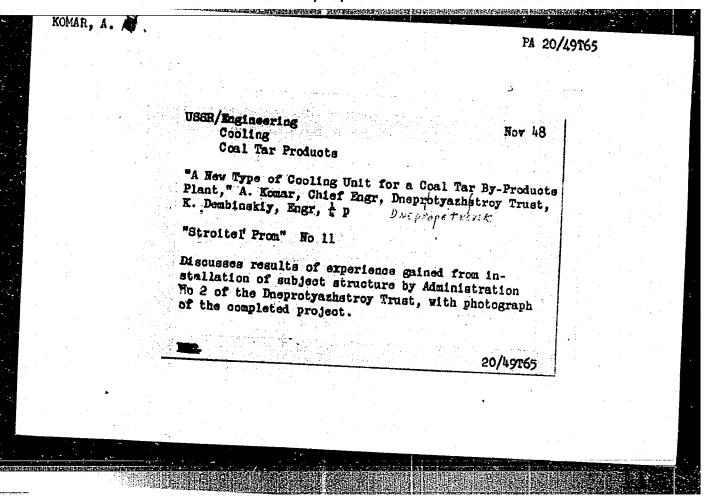
KomAR, A.

MALEC J., ZAHRZENSKI K., KONAR A.

Canadanie olosiu we kewi. Determination of lead in blood/

1. Of the Institute of Physiological Chemistry of Warsan Medicul Academy and of the Central Institute of Labor, Warsan.

CLML Vol. 20, No. 10 Oct 1951



KOMAR, Andras

Situation of the socialist competition in the mining. Munka 11 no.1:

1. A Banyasz Szakszervezet titkara.

(Humgary-Coal mines and mining)

KOMAR, A. A.

"Bremsstrahlung and Pair Production of Particles of Spin 3/2"
Nuclear Physics, 9, No. 1, 1958, November. (No. Holland Publ. Co., Amsterdam)

P. N. Lebedev, Physical Inst, Acad. Sci. USSR, Moscow,

Abstract: Bremsstrahlung and pair production for spin 3/2 particles are computed in the lowest perturbation theroy approximation. The ultrarelativistic case is considered in detail. Them importance of small impact parameters is demonstrated. For a pure Coulomb nuclear field the cross sections are proportional to E^O where E is the incident particle or photon energy. The effect of deviation of the nuclear electric field from that of a point Coulomb source is discussed.

21(7) AUTHOR: Komar, SOV/56-35-3-48/61 The Scattering of a Particle of Spin 3/2 in a Coulomb Field TITLE: (Rasseyaniye chastitsy so spinom 3/2 v kulonovskom pole) PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 3, pp 806 - 807 (USSR) ABSTRACT: The influence exercised by the various values of the spin of the newly discovered elementary particles may be of interest for the investigation of this spin. This influence manifests itself in connection with some effects such as Compton (Kompton) scattering, bremsstrahlung, and pairwise production of particles with spin 0, 1/2, 1, 3/2. The present paper deals with the scattering of particles with spin 3/2 in the Coulomb (Kulon) field of a nucleus. The matrix element of the process in Born's approximation has the form $\mathcal{M} = -e \int \overline{B}^{i}(x) A_{k}(x) \gamma_{k} B^{i}(x) d^{4}x$. The spin vector $B^{i}(x)$ describes a particle with the spin 3/2 and satisfies the following equation: $(\gamma_k \partial/\partial x_k + M)B^i(x) = 0$ and the additional conditions $\gamma_i B^i = 0$, $\partial B^i/\partial x_i = 0$. A_k denotes the four-potential Card 1/3

The Scattering of a Particle of Spin 3/2 in a Coulomb Field

SOV/56-35-3-48/61

of the nuclear field. Next, expressions are written down for the matrix element in p-representation and for the differential cross-section dd. For a pure Coulomb field the Rutherford (Rezerford) cross-section is obtained. The spin corrections are taken into account by a factor contained in the expression for dd. For particles with the spins 1 and 3/2 the spin corrections increase with energy; this may be observed with particular distinctness in the case of spin 3/2. If energies are high, this may lead to deviations from the usual form of scattering even if scattering angles are not very large. There are 2 references,

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences USSR)

SUBMITTED:

June 14, 1958

Card 2/3

KOMAR, A. A., Candidate Phys-Math Sci (diss) -- "On electromagnetic interactions of particles with a spin of 3/2". Moscow, 1959. 8 pp (Acad Sci USSR, Phys Inst im P. N. Lebedev), 150 copies (KL, No 24, 1959, 125)

324(5),24(3)

AUCHORS: Komar, A. A., Merkov, M. A. SOV/56-36-3-31/71

TIPLE:

On a Variant of the Monlocal Theory of the Electromagnetic Field (Ob odnom variante nelokal'noy teorii elektromagnitnogo

polya)

FERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki,

1959, Vol 36, Nr 3, pp 854-858 (USSR)

ABSTRACT:

Several authors (Refs 1-5) investigated a variant of the nonlocal electromagnetic field theory and used a potential of

the Lienard-Wiechert (Liyenar, Vikhert) type $A_{\mathcal{M}} = -c(u_{\mathcal{M}}(\mathbf{r'})/R_{\mathbf{y}}U_{\mathbf{y}}(\mathbf{r'}))_{R_{\mathbf{y}}^{2} + a^{2} = 0} \text{ with } \Box \mathbf{A}_{\mathbf{x}}$

The present paper intends to show that this variant leads to unsatisfactory results and that the suggested general potential form and the resulting smearing out of the charge leads to an internal contradiction: to incompatibility of the system of classical equations for charged particles. The correctness of this statement made by the authors, which is mentioned at the beginning of this paper, is proved by means of a consistent

Gamd 1/2

On a Variant of the Konlocal Theory of the Electronagnetic Field

SOV/56-56-5-51/71

relativictic treatment, viz. by a transition to the many-time formalism (Ref 4) of the classically electrodynamical description of a system of charged particles.

There are 6 references, 2 of which are Soviet.

AUGCCITA HOS: Fizicheskiy institut im, P. N. Lebedeva Amademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of Sciences, USSR)

SUPERING.

September 10, 1958

Or.xd 2/2

CIA-RDP86-00513R000824020007-8" APPROVED FOR RELEASE: 06/13/2000

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26.2340

S/057/61/031/002/012/015 B124/B202

AUTHORS:

Komar, A. P. and Komar, A. A.

TITLE:

die Sept

Molecules and complexes of molecules and atoms as waveguides

for electron waves

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 31, no. 2, 1961, 231-237

When working with a field emission microscope, 2 to 4 light spots consisting of two or four parts frequently appear on the screen of the microscope (Fig. 1). This is mainly the case when the piston walls are poorly degassed or if the vacuum is poor. Sometimes also oval spots, circles, rings and more complex patterns are observed (see Fig. 2), which are thoroughly described in Refs. 1 and 2. On the basis of the papers hitherto published it may be assumed as certain that 1) these patterns are formed by molecules or complexes of molecules and atoms which are adsorbed on the surface of the point; 2) the symmetry and intensity of the patterns are not connected with the symmetry of the molecules; and 3) electron exchange occurs between molecule and metal point. The intensity distribution in the spots is the same as in light which had passed through transparent Card 1/8

89166

Molecules and complexes of ...

S/057/61/031/002/012/015 B124/B202

threads (Ref. 12) or in amplitudes of ultraviolet vibrations which had passed through elastic rods (Ref. 14). During electron emission of molecules, the electron waves are canalyzed by the molecules. Electron the molecules. It is demonstrated that the molecules are waveguides for electron waves which was also experimentally confirmed. Two boundary

I) $\psi|_{r=a} = 0$ II) $\frac{\partial \psi}{\partial r}|_{r=a} = 0$. (5)

are set up. The authors also discuss the order of the occurrence of the various types of vibration and the form of the patterns on the screen as depending on the energy E = ev of the electron, i.e., its dependence on the voltage drop on the waveguide. The critical lower energy at which 2m .2

I) $\frac{2m}{n^2} (E + e\overline{v}_i) = \frac{v_{ni}^2}{a^2}$, (10a) and II) $\frac{2m}{n^2} (E + e\overline{v}_i) = \frac{v_{ni}^2}{a^2}$. (10b), Card 2/8

Molecules and complexes of ...

S/057/61/031/002/012/015 B124/B202

which indicate that this order is exclusively determined by the law governing the increase of the roots of Bessel function ν_{ni} and μ_{ni} . Various types of vibration for both boundary conditions are shown in Table I. They indicate that the types of vibration are very similar as to their ψ distribution symmetry under both boundary conditions. The patterns consisting of two and four parts can actually be ascribed to the waveguide properties of the molecules. The order observed in the present paper is in full agreement with the order of the types of vibration at $\psi|_{\mathbf{r}=a}=0$, shown in Table I. Table II shows the types of vibration for a waveguide with square cross section which do not essentially differ from those of Table I. The values m corresponding to the lowest types of vibration are low; however, n may vary in a rather wide range. The patterns shown in Table III may be observed on the projector screen if m=3 and n=6. There are 2 figures, 3 tables, and 15 references: 4 Soviet-bloc

Card 3/8

89166

Molecules and complexes of ...

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ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe, AN SSSR (Institute of Physics and Technology imeni A. F. Ioffe of the AS USSR) Fizicheskiy institut im. P. N. Lebedeva

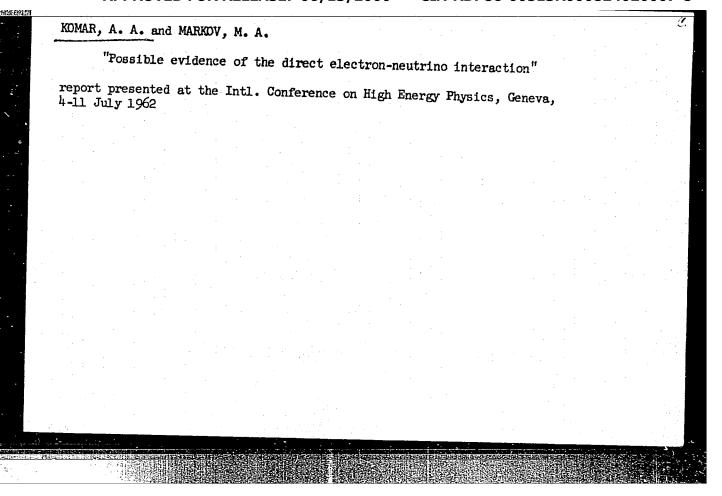
Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev

of the Academy of Sciences USSR)

SUBMITTED:

December 14, 1960

Card 4/8



KOMAR, A. A.



PHASE I BOOK EXPLOITATION

807/5982

International Conference on High-Energy Physics. 9th, Kiyev, 1959.

Devystaya rechdumarednaya konferentsiya po fizike vysokikh energiy, Kiyev 15-25 iyulya 1959 6. (Hinth International Conference on High-Energy Physics. Kiyev, July 15-25, 1959), Moscow, 1961. 739 p. 2,500 copies printed.

Spensoring Agency: Akademiya nauk SSSR. Kazhdunarodnyy Soyus chistoy i prikladnoy fiziki.

Contributors not mentioned.

FURPOSE: This book is intended for nuclear physicists.

COVERAGE: The collection contains 30 scientific articles presented at the 9th International Conference on High-Energy Physics, held in Klyev from 15 to 25 July 1959. The articles presented relate mainly to the progress in nuclear physics achieved in 1959. Subjects discussed are the production of Card 1/6

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	Hinth International Conference (Cont.) 807/5982)
	nucleons, their structure, weak and strong interactions, scattering, and their decay. No personalities are mentioned. References accompany individual articles.	i do a musikan
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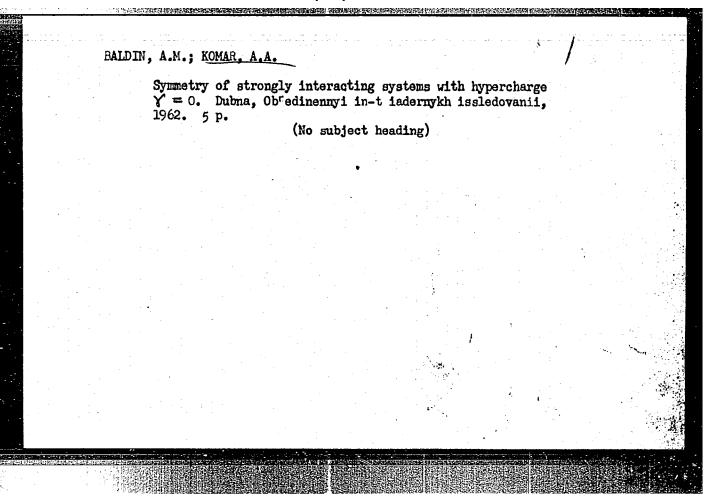
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(Molecular association) (Wave guides) (Field emission)

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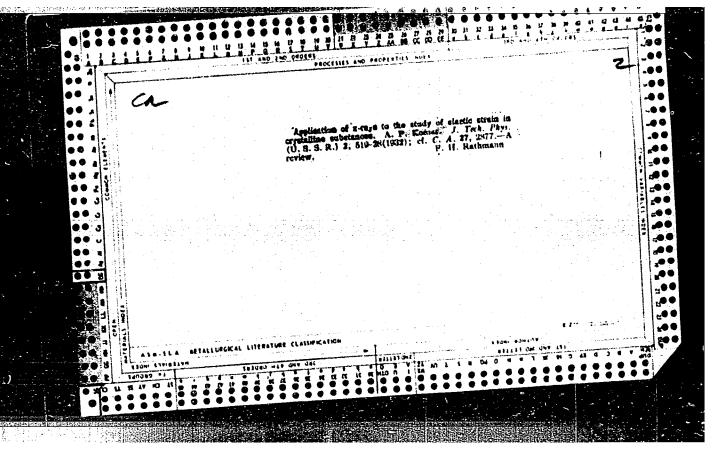
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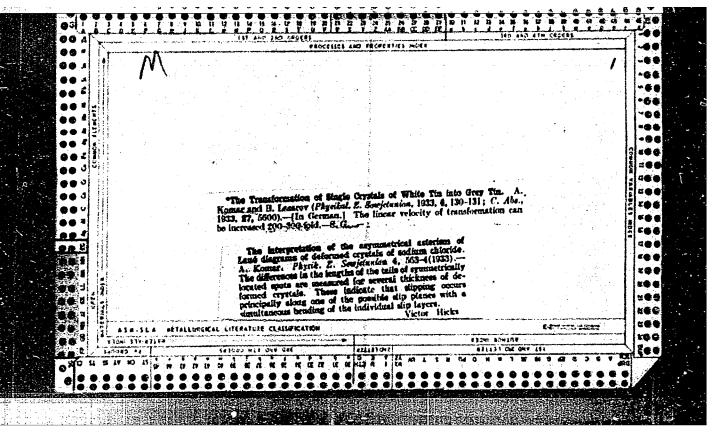
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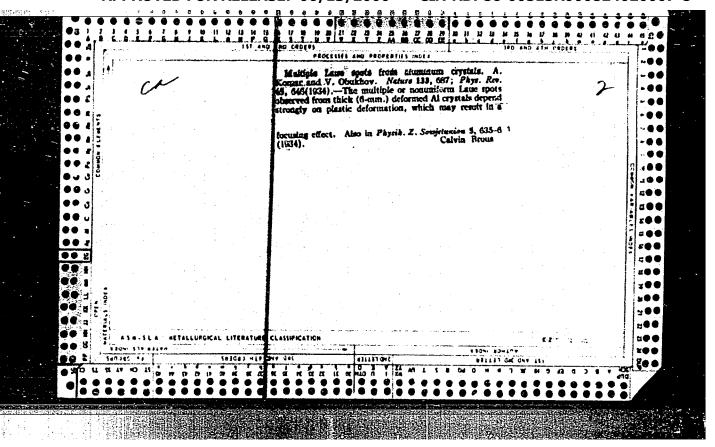
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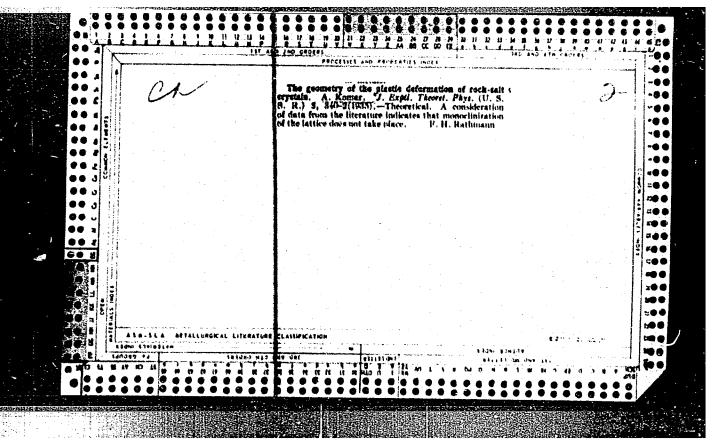
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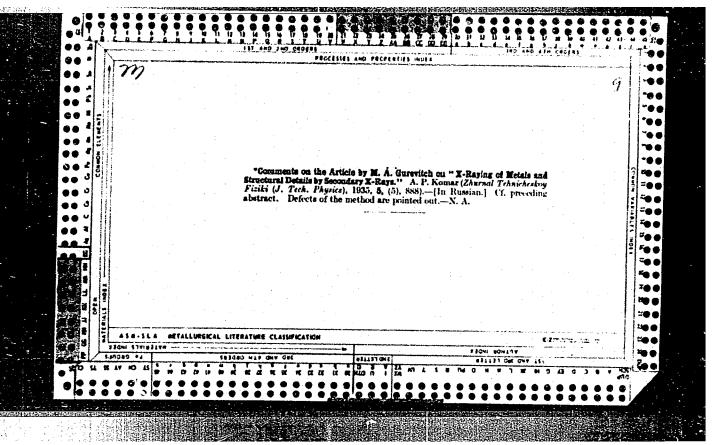
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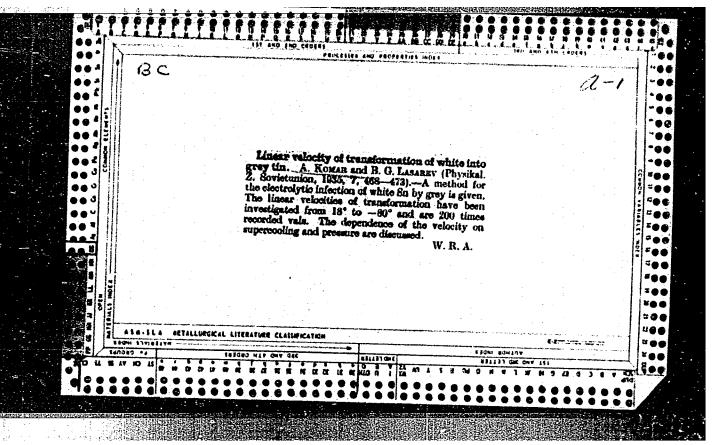












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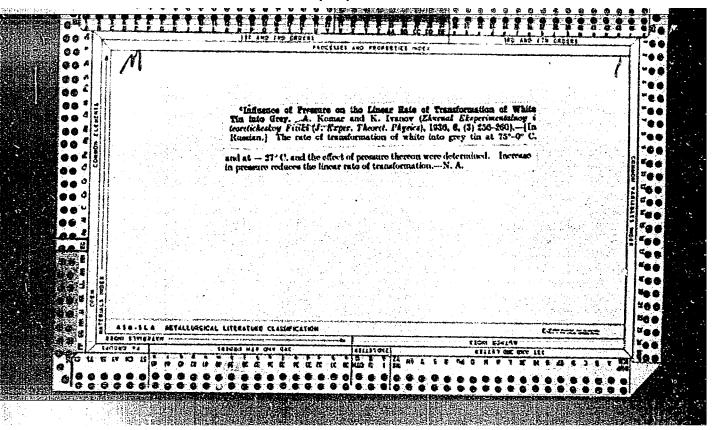
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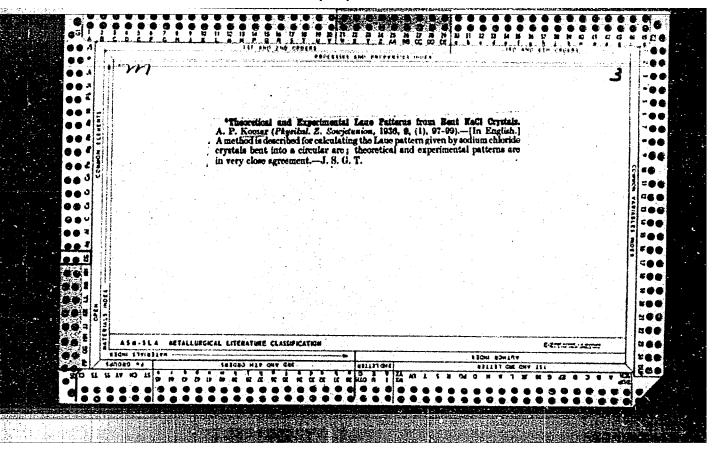
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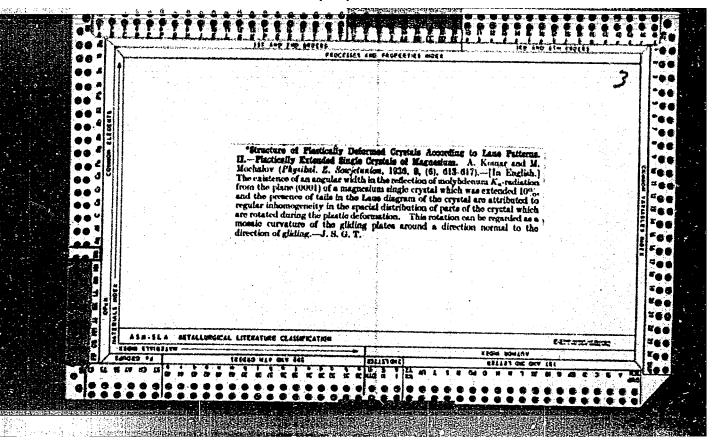
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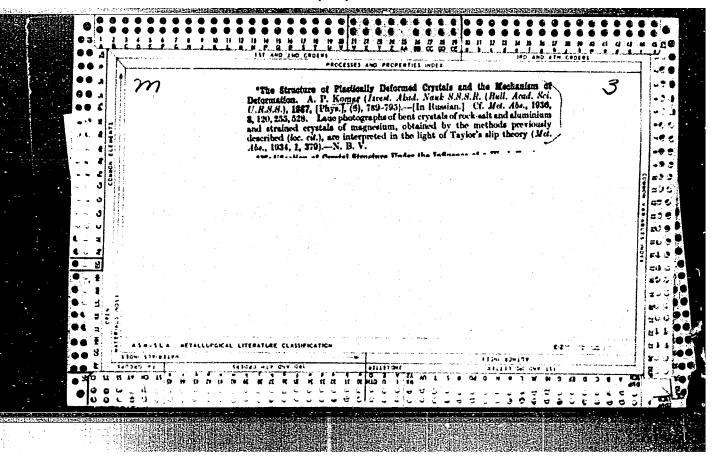
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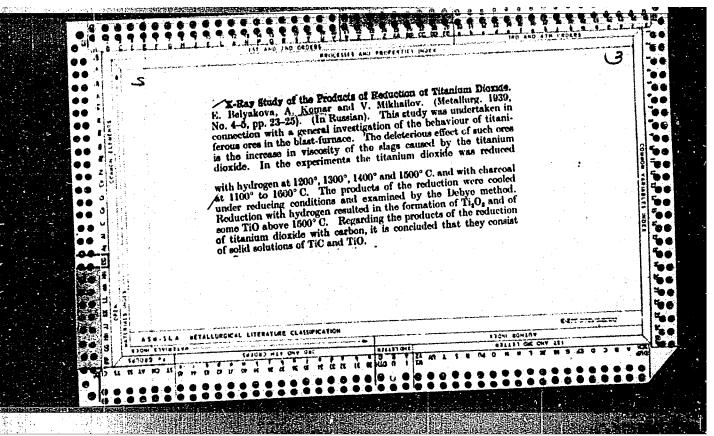


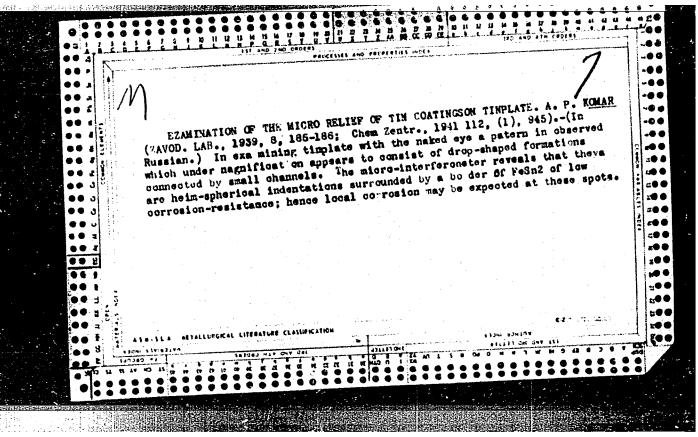


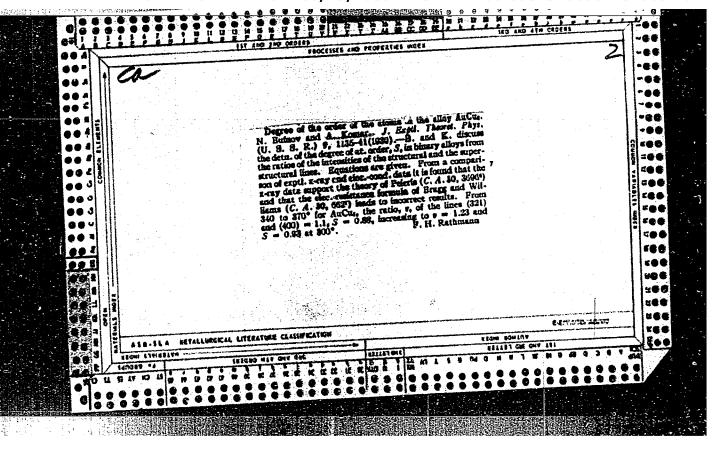
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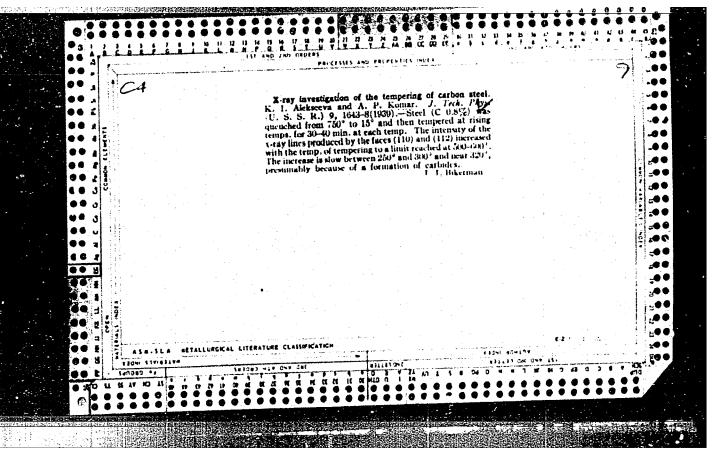
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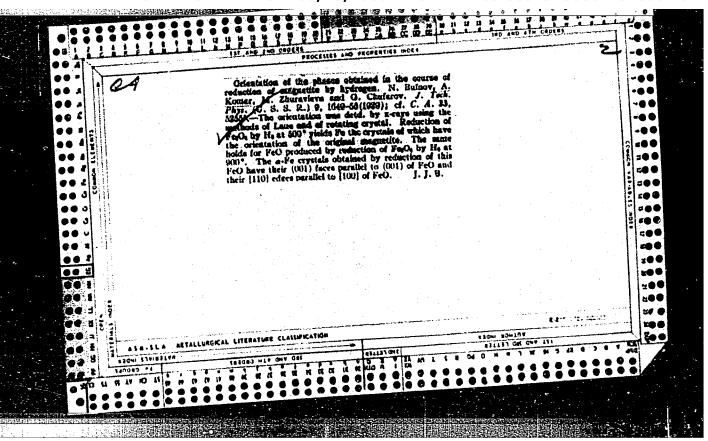
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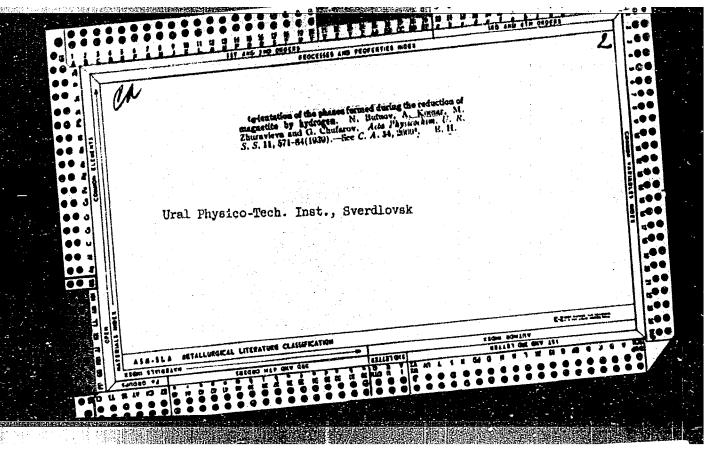










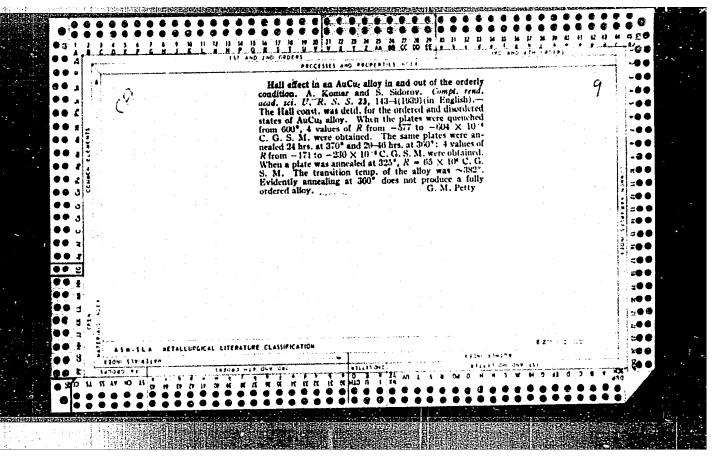


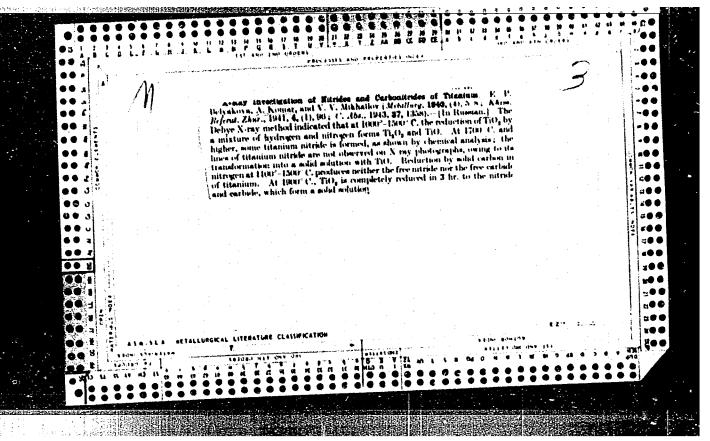
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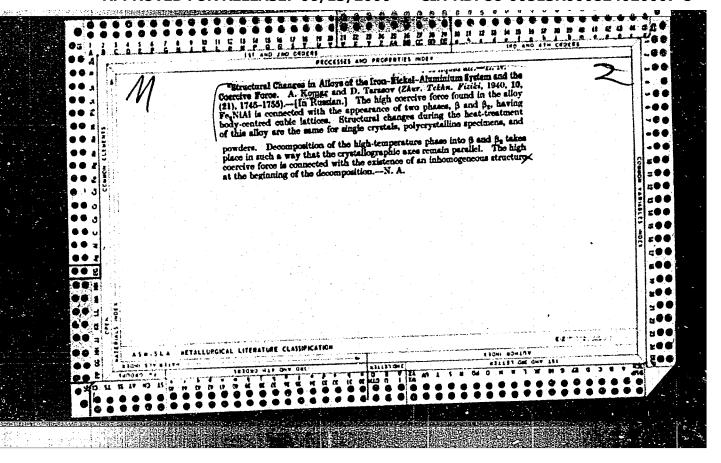
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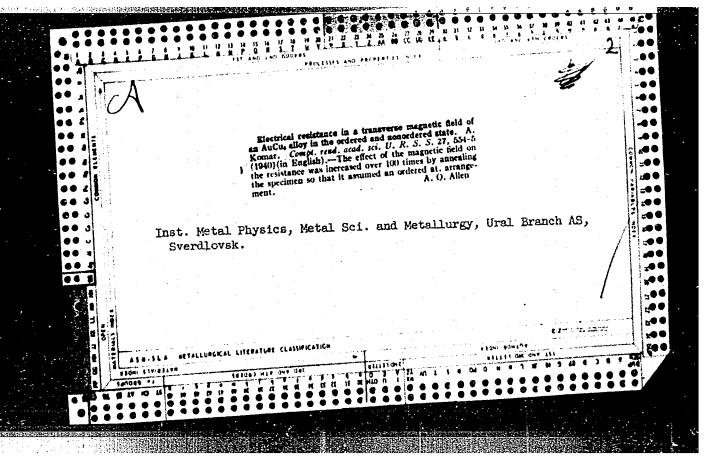
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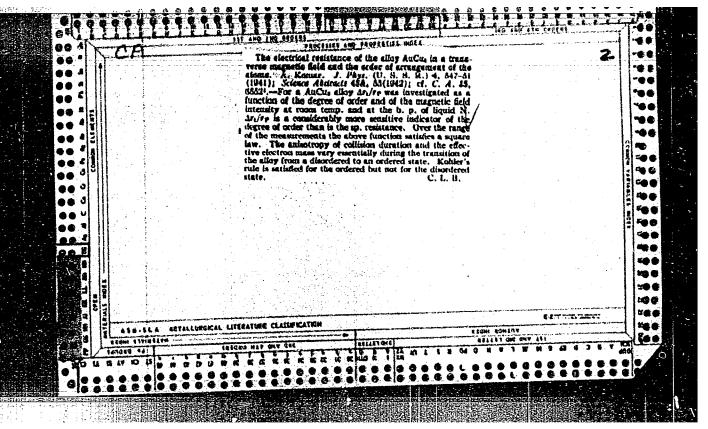
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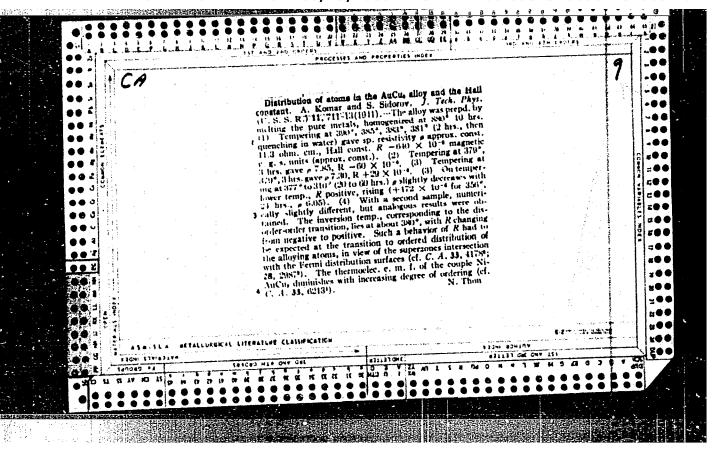


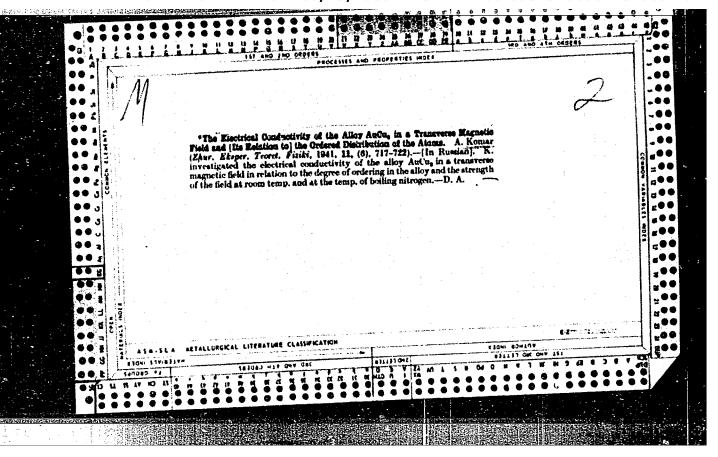


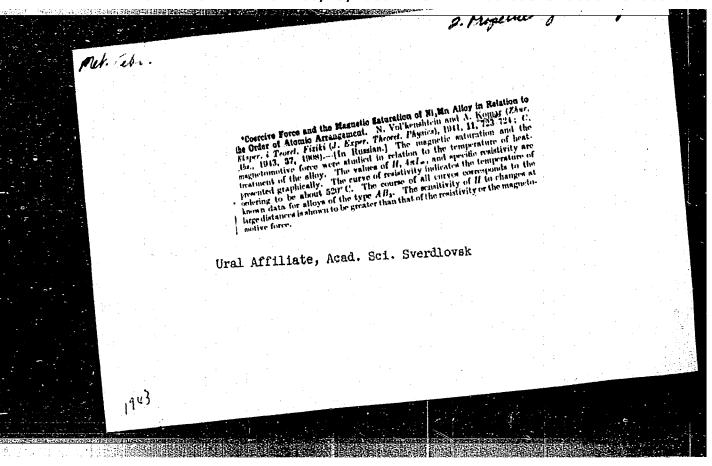


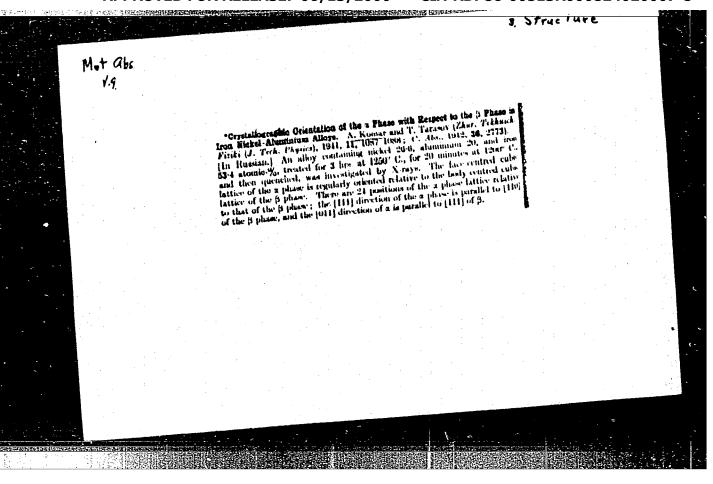


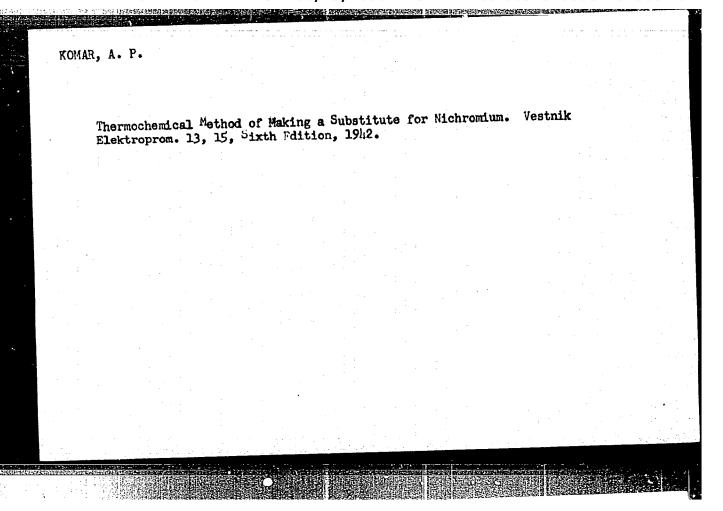












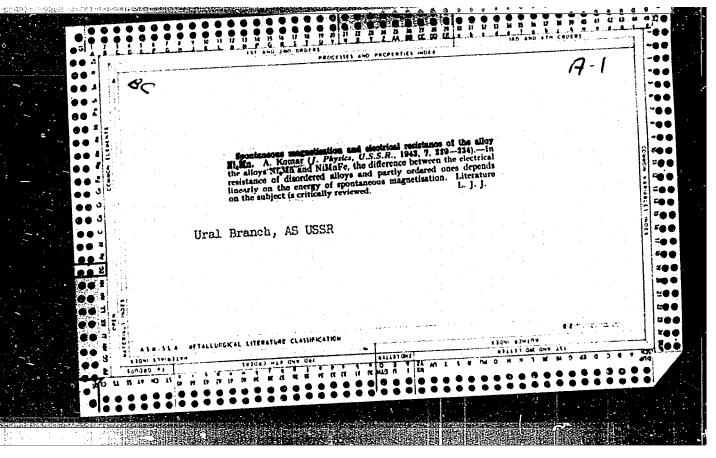
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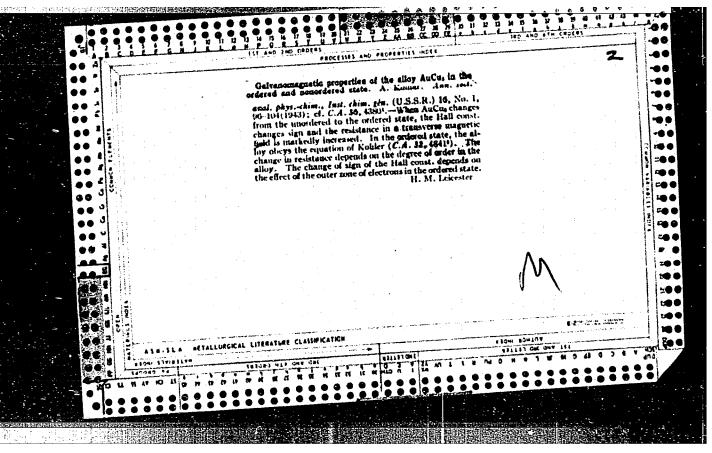
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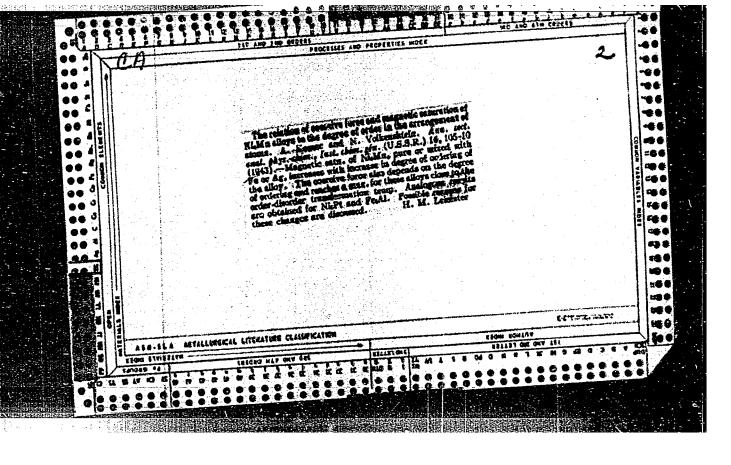
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